

LIVCHAK, G.B.

Materials on the ecologico-physiological characteristics of
mammals inhabiting regions beyond the Arctic Circle. Trudy
Sal. stats. UFAN SSSR no.1:280-292 '59. (MIRA 14:9)
(Field mice) (Ascorbic acid) (Acclimatization)

KHOMENKO, P.G., inzhener; YEVSEYEV, M.L., redaktor; MEREKALOV, I.F., redaktor; DROZDOV, B.M., kandidat tekhnicheskikh nauk, retsenzent; LIVCHAK, G.F., inzhener, retsenzent; TIKHONOV, A.Ya., tekhnicheskii redaktor

[Calculating machines] Schetno-analiticheskie mashiny. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 286 p.
(Calculating machines) (MLRA 9:4)

KRIUSHIN, V.N.; LEVIT, M.Ye.; LIVCHAK, G.F., red.; USTIYANTS,
V.A., red.

[T-5M tabulator with diode-switching attachment] Tabu-
liator T-5M s diodno-releinyim prisposobleniem. Moskva,
Statistika, 1965. 69 p. (MIRA 18:7)

1. Glavnyy inzhener TSentral'noy stantsii mekhanizirovan-
nogo scheta TSentral'nogo statisticheskogo upravleniya
SSSR (for Livchak).

LIVCHAK, I.F., inzhener, kandidat tekhnicheskikh nauk.

~~On ventilation for dwellings.~~ Gor.khoz.Mosk. 21 no.3:20-24 Mr '47.

(MLRA 6:11)

(Dwellings--Heating and ventilation)

LIVCHAK, I. F.

BOGUSLAVSKIY, L. D., Kandidat Tekhn. Nauk. i, LIVCHAK, I. F., Kand. Tekhn. Nauk.

Stroitel'nyy institut Mossoveta
Dlitel'nye Eksploatatsionnye Ispytaniya Otopitel'noy

Page 45

Pechi S Vodyanym Teploakkumuliruyushchim Massivom

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

LIVCHAK, I.F., kandidat tekhnicheskikh nauk.

[Ventilation of multistory residential buildings] Ventilatsiia
mnogoetazhnykh zhilykh domov. Moskva, Gos. izd-vo arkhitektury i
gradostroitel'stva, 1951. 169 p. (MLRA 7:3)

1. Dotsent Stroitel'nogo instituta Moskovskogo soveta.
(Ventilation)

LIVCHAK, I. F.

Inventions and improvements in the field of central heating. Moskva, Gos. izd-vo
lit-ry po stroitel'stvu i arkhitekture, 1952. 140 p. (53-20057)

TH7461.L55

LIVCHAK, I. F.

Dwellings--Heating and Ventilation

Selection of the heating system for small prefabricated dwellings. Stroi. prom., No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 195²3, Uncl.

ЛИВЧАК Л.В. кандидат технических наук

Concrete panel-heating units installed under windows. Trudy
Stroi.inst. Mosgorispolkoma no.4:56-60 '53. (MLRA 8:3)
(Radiant heating)

Moscow City Executive Com.

LIVCHAK, I.F., kandidat tekhnicheskikh nauk.

The use of concrete panel heating units in contemporary dwelling and public building construction. *Biul.stroi.tekh.* 10 no.12:36-37 J1 '53. (MIRA 6:8)
(Radiant heating)

LIVCHAK, I.F., kandidat tekhnicheskikh nauk; PASHCHENKO, N.Ye.,
inzhener.

Heating system with radiator panels under windows. Gor.
khos.Mosk. 28 no.6:17-20 Je '54. (MLRA 7:7)
(Radiators)

KUZNETSOV, G.F., doktor tekhn.nauk; MOROZOV, N.V., kand.tekhn.nauk;
~~LIVCHAK, L.F.~~, kand.tekhn.nauk; TEMKIN, L.Ye., inzh., nauchnyy red.;
TUMARKIN, D.M., inzh., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.

[Manual on planning apartment houses and public buildings of panel and frame-panel construction] Rukovodstvo po proektirovaniu zhilykh i obshchestvennykh zdaniy s panel'nymi i karkasno-panel'nymi konstruktsiyami. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekt., 1955. 142 p. (MIRA 11:3)

(Apartment houses) (Building)

TILIN, Lev Aronovich; kandidat tekhnicheskikh nauk, dotsent; LIVCHAK,
I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; GUSEV,
Yu.L., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

[Hot air radiant heating; methods for calculation] Luchistoe
otoplenie nagretym vozdukhom; metodika rashcheta. Moskva, Gos.
izd-vo lit-ry po stroit. i arkhitekture, 1955. 154 p. (MLRA 8:11)
(Radiant heating)

LIVCHAK, I.F.; PASHCHENKO, N.Ye.

Sanitation facilities for large-panel and building-block apartment
and public-building construction. Vod.i san.tekh. 1 no.1:4-8 Ap'55
(MIRA 8:11)

(Sanitation, Household) (Buildings, Prefabricated)

LIVCHAK, I.P., kandidat tekhnicheskikh nauk, dotsent; ZHURAVLEV, B.A., inzhener,
redakter; GOLUBENKOVA, L.A., redakter; DAKHMOV, V.S., tekhnicheskii
redakter.

[Systems of heating with concrete heating panels] Sistemy otepleniya s
betonnymi otepitel'nymi paneliami. Moskva, Gos. izd-vo lit-ry po stroit.
i arkhitekture 1956. 141 p. (MLRA 9:4)
(Radiant heating)

LIVCHAK, I.F.; IVYANSKIY, A.Z.

Experience in designing heating systems for large-sized panelbuilt
buildings. Vod.i san.tekh. no.1:1-4 Ja '56. (MLRA 9:5)
(Radiant heating)

LIVCHAK, I.F.

Congress of sanitary engineers in Budapest. Ved.i san.tekh.no.5:36-38
My '56. (MIRA 9:9)

(Budapest--Sanitary engineering--Congresses)

LIVCHAK, M.F.: OTSEP, S.A.

International conference on problems of heating, ventilation
and air conditioning. Vod.1 san.tekh. no.6:36-39 Je '56.
(MLRA 9:8)

(Paris--Heating--Congresses)

KOLOMIYTSEV, A.O.; LIVCHAK, I.F.

Current demands for heating equipment. Vol. 1 san.tekh. no.12:29-32 D '56. (Radiators) (MIRA 10:3)

LIVCHAK, I. F.

"Development of Central Heating in Urban Buildings of the USSR," paper
submitted at International Meeting on Building and Public Works Tech. Inst.,
Heating, Ventilation and Air Conditioning, Paris, France, 27-29 May 1957

C-3,800,130

Assistant Director of the Inst. of Tech. Building
Equipment, USSR Acad. of Construction and Architecture

LIVCHAK, I.P., kandidat tekhnicheskikh nauk; KONSTANTINOVA, V.Ye.; NINEMYASH,
D.K., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiiy redaktor

[Industrial construction elements of ventilating systems in
apartment houses] Industrial'nye elementy ventilatsionnykh sistem
shilykh sdanii. Moskva, Gos.isd-vo lit-ry po stroit. i arkhit.,
1957. 109 p. (MLRA 10:7)
(Apartment houses--Ventilation)

LIVCHAK, Isail Fodorovich; KOVALENVSKIY, I.I., nauchnyy redaktor; SEREBRANN-
NIKOVA, L.A., redaktor; BARANOVA, N.N., tekhnicheskij redaktor

[Steam-heating for small buildings] Vodianoe otoplenie nebol'shikh
zdanii. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat,
1957. 115 p. (MIRA 10:11)
(Steam--Heating)

LIVCHAK, I. F. Doc Tech Sci -- (diss) "New systems of heating and ventilation
for industrial housing, ^{construction."} Mos, 1957. 32 pp 22 cm. (Acad of Construction and
Architecture USSR), 120 copies (KL, 14-57, 86)

LIVCHAK, I.

The heating of homes in contemporary building. Gor. i sel'.
stroitel. no.6:11-13 Je '57. (MIRA 10:10)

1.Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR.

(Building) (Heating)

LIVCHAK, I.P.

International Conference on Problems of Heating and Ventilation in
Paris. Vod. 1 san. tekhn. nr.3:37-39 Mr '58. (MIRA 11:3)
(Paris--Heating--Congresses)

KOP'YEV, S.F.; LIVCHAK, I.F.

Some characteristics of solutions of sanitary engineering problems
which are used in France. Vod. 1 san. tekhn. no.6:32-36 Je '58.
(MIRA 11:5)

(France--Sanitary engineering)

LIVCHAK, I.F.; IVANOV, V.M.; GRUDZINSKIY, M.M.

Hot-air heating with exhaust ventilation in modern apartment
houses and public buildings. Vod. i san. tekhn. no.8:5-11

Ag '58.

(MIRA 11:9)

(Hot-air heating)

(Exhaust systems)

KOSTRYUKOV, Valentin Andreyevich; LIVCHAK, I.F., retsenzent; YEGIAZAROV,
A.G., kand.tekhn.nauk, nauchnyy red.; WINEMYAGI, D.K., red.izd-va;
ALEKSANDROVA, O.M., tekhn.red.

[Examples of calculations of heating and ventilation systems]
Sbornik primerov rascheta po otopeniyu i ventilatsii. Moskva,
Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam. Pt.1.
[Heating] Otoplenie. 1960. 189 p. (MIRA 13:9)
(Heating)

LIVCHAK, I.F.; YMLANCHIK, G.A.

Hot-air heating of apartments combined with air-supply and exhaust ventilation. Vod. i san. tekhn. no.5:24-26 My '60.

(MIRA 13:10)

(Dwellings--Heating and ventilation)

LIVCHAK, I.F., doktor tekhn.nauk

Sanitary engineering equipment at the 1960 exhibitions in the
United States. Gor. khoz. Mosk. 34 no.11:34-39 N '60.
(MIRA 13:11)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(United States--Sanitary engineering--Equipment and supplies)

KRAVTSOV, Ya.V.; LIVCHAK, I.F.; PASHCHENKO, N.Ye.

Use of new heating units in modern construction. Vod. i san.
tekh. no.8:28-31 Ag '61. (MIRA 14:9)
(Radiators)

LIVCHAK, I.F.

Decrease in the cost and quantity of metal in centralized
heat supply systems. Teploenergetika 8 no.4:68-73 Ap '61.
(MIRA 14:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR.

(Heating from central stations)

LIVCHAK, I., doktor tekhn.nauk; VILENSKIY, Ye., kand.tekhn.nauk

Heat supply, water supply, and sewerage for rural buildings
of the Virgin Territory. Sel'. stroi. 16 no.12:16 D. '61.

(MIRA 15:2)

(Virgin Territory—Domestic engineering)

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHOV, G.G.; VAYNGAUZ, L.G.;
VILENSKIY, Ye.Ya.; GAMBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIS,
Ye.Ye.; KUZNETSOVA, Z.I.; KOP'YEV, S.F.; LIVCHAK, I.F.;
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; PIRUMOV, A. I.;
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,
S.P.; TALIYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.
red. /

[Present level and prospects for the development of sanitary
engineering and the production of sanitary engineering equip-
ment] Sovremennyyi uroven' i perspektivy razvitiia sanitarnoi
tekhniki i proizvodstva sanitarno-tekhnicheskogo oborudova-
niia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut
sanitarnoy tekhniki.

(SANITARY ENGINEERING)

LIVCHAK, I.F., doktor tekhn.nauk; SLADKOV, S.P., kand.tekhn.nauk;
KONSTANTINOVA, V.Ye.

Improving the air in apartments using gas. Izv. ASIA 4 no.2:69-76
'62. (MIRA 15:9)

(Apartment houses—Heating and ventilation)

IVYANSKIY, A.Z., kand. tekhn. nauk; GRUDZINSKIY, M.M., kand. tekhn. nauk; LIVCHAK, I.F., doktor tekhn. nauk; KLIMOVA, G.D., red. 1zd-va; MOCHALINA, Z.S., tekhn. red.

[Temporary instructions on the use of heating systems with concrete heating panels] Vremennye ukazaniia po primeneniiu sistem otopleniia s betonnymi otopitel'nymi paneliami. Moskva, Gosstroizdat, 1963. 67 p. (MIRA 16:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Livchak). (Radiant heating)

LIVCHAK, I.F. Prinimali uchastiye: LOBACHEV, P.F.; SLADKOV, S.P.;
DZINSKIY, M.M.; POLIKARPOV, V.F.; IZYANSKIY, A.Z.;
KONSTANTINOVA, V.G.; MATVEYEVA, N.A.; STRASHNYKH, V.P.,
red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Instructions for using improved sanitary equipment in large-panel buildings] Ukazaniia po primeneniiu usovershenstvovannykh sanitarno-tekhnicheskikh ustroystv v krupnoelementnykh domakh. Moskva, Gosstroizdat, 1963. 85 p. (MIRA 16:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki.

(Sanitary engineering—Equipment and supplies)

LIVCHAK, I.F.

Some information on foreign heating, ventilation and air conditioning. Vod.i san.tekh. no.2:32-36 P '63.

(MIRA 16:2)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.

(Great Britain--Domestic engineering)

LIVCHAK, I.F., doktor tekhn. nauk

Air feed with maximum temperature gradients during the use
of laminar flows. Vod. 1 san. tekhn. no.11:15-19 N '63.
(MIRA 17:1)

LIVCHAK, I.F., doktor tekhn. nauk; USENKO, I.F., inzh.; BEREZIN, M.D.;
inzh.; YEVSEYEV, B.S., inzh.; IL'YUSHIN, L.M., inzh.

Using water heating systems with plinth convectors without
casing. Vod. i san. tekhn. no. 3:18-21 '64 (MIRA 18:2)

KOP'YEV, S.F., doktor tekhn. nauk; LIVCHAK, I.F., doktor tekhn. nauk;
NASONOV, Ye.A., inzh.

Using the heat of thermal waters for heating. Vod. i san. tekhn.
no.6:1-6 Ja '64 (MIRA 18:1)

LIVCHAK, I.F., doktor tekhn.nauk

When does a "heat cushion" develop and the "temperature overlap?"
Vod. i san. tekhn. no.7:31-34 JI '61.

(MIRA 18:8)

LIVCHAK, I.E., doktor tekhn. nauk; PASHCHENKO, N.Ye., inzh.;
NOTKIN, Ye.M., kand. tekhn. nauk; KUR, G.Ye., kand. tekhn. nauk

Heating system with plinth-type cast-iron convectors without
casing. Vod. i san. tekhn. no.10:1-6 O '65. (MIRA 18:11)

LIVCHAK, T. N., INZH.

NAUCHNO-ISSLEDOVATEL'SKIY INSTITUT PO STROITEL'STVU MINISTERSTVA STROITEL'STVA
PREDPRIYATIY MASHINOSTROYENIYA

STAL'NOY SHPUNT. PAGE 34

SO: SBORNIK ANNOTASII NAUCHNO-ISSLEDOVATEL'SKIKH RABOT PO STROITEL'STVU,
MOSCOW, 1951

S/032/60/026/04/26/046
B010/B006

AUTHORS: Chernashkin, V.G., Livchak, T.N.

TITLE: Method of Relaxation Measurement of a High-strength Wire

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 481-483

TEXT: In elongation tests, the relaxation of a high-strength wire is best measured at constant wire sample length. A fatigue test method based on this fact was developed and high-strength wire samples ($\sigma_B = 150-200 \text{ kg/mm}^2$) of various origins were tested at $20 \pm 1^\circ$. The wire sample was fixed in a steel frame (Fig. 1). Stresses of $90-170 \text{ kg/mm}^2$ were applied and the frequency was measured at 150-250 cps. The minimum stress relaxation in the sample changes the frequency by about 2-3 cps, so that the frequency had to be determined with a precision of 0.1 cps, in order to reduce the error in relaxation measurements to 2.5-3%. A special block scheme (Fig. 2) was therefore designed. The sample is vibrated by an electromagnetic vibrator connected to a power amplifier (exciter block type PV-3²⁸ produced by TsLEM Mosenergo). The mechanical vibrations are transformed to electric tension by a strain gage and recorded

Card 1/2

Method of Relaxation Measurement of a High-strength Wire

S/O32/60/026/04/26/046
B010/B006

by an EO-7 oscilloscope.²⁸ The frequency is measured by an SD-60 synchronous motor.²⁹ To increase the accuracy of measurement, a second block scheme (Fig. 3) utilizing a radiometric apparatus of type BK-3³⁰ produced by the plant "Fizpribor" was designed (this scheme was developed by P.P. Veselov, Engineer). The test results obtained are shown graphically (Fig. 4). There are 4 figures and 5 Soviet references.

Card 2/2

CHERNASHKIN, V.G., inzh.; LIVCHAK, T.N., inzh.

Relaxation of stresses and creep of high-strength wire reinforcement. Bet. i zhel.-bet. no.9:414-417 S '61. (MIRA 14:10)
(Concrete reinforcement)

Givrat, I. N., Chernashin, I. N.

TITLE: The effect of electrical preheating on the mechanical properties, stress relaxation, and creep of high-strength wire

SOURCE: Stal, no. 12, 1964, 1145-1147

TOPIC TAGS: mechanical property, stress relaxation, creep, cold drawn wire, stress relief, heat treatment

ABSTRACT: Mechanical properties, stress relaxation, and creep were investigated in high-carbon cold-drawn wire within a 200 to 500 C temperature range. After a holding period in excess of one minute, strength declined above 400 C. Relaxation tests showed that at 100 C, the rate of stress relaxation was proportional to temperature increases and heating period. When heated at 400 C, heat-treated specimens displayed a 20 to 35% stress relief and attained 60% of their total stress relief (100 hrs). Creep elongation also decreases by

L 32909-65
ACCESSION NR: 5000563

1.5 to 2 times within that same period. Similar to untreated specimens the main creep occurs during the initial period of heat treatment. The rate of creep is conspicuously inhibited by the heat treatment. Observations over an 18-month period showed that stress relief continues to develop amounting to 5.8 and 8.4% in heat treated specimens (200 to 300 C, holding time 20 sec.). Thus, within a year a wire rod may lose the properties conferred upon it by the stress relief heat treatment. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

L 27090-66 ENT(m)

ACC NR: AP6017412

SOURCE CODE: UR/0097/65/000/010/0015/0018

AUTHOR: Gorodnitskiy, F. M. (Candidate of technical sciences); Yukhvets, I. A. (Candidate of technical sciences); Korenev, K. I. (Engineer); Riskind, B. Ya. (Engineer); Shumeyko, R. I. (Engineer); Livchak, T. N. (Engineer); Litvinov, A. A. (Engineer); Makarevich, A. A. (Engineer)

ORG: none

TITLE: Properties of high-strength reinforcement material subjected to electrical heating

SOURCE: Beton i zhelezobeton, no. 10, 1965, 15-18

TOPIC TAGS: concrete, wire, solid mechanical property

ABSTRACT: Specimens of high-strength reinforcing wire for concrete were subjected to mechanical tests to determine the effects of electrothermal prestressing on the strength of reinforcing materials. The experimental procedure is described and the mechanical characteristics, chemical composition and geometric shape of the various wires studied are given. It is found that the optimum pretensioning temperature (i.e. the highest temperature which does not reduce the ultimate strength of the wire) is 400°C for a 5-mm wire and 350°C for a 3-mm wire. These temperatures meet the standard requirements for permanent elongation of wire which is not low-temperature annealed during manufacture. Since 3-mm wire is not sufficiently tensioned

Card 1/2

UDC: 666.982.4

L 27090-66

ACC NR: AP6017412

at the maximum permissible temperature, the use of this wire is not recommended for the electrothermal pretensioning method. If 5-mm wire must be heated to more than 400° for the required degree of tensioning, the reduction in the strength characteristics of the wire must be taken into consideration. The electrical heating should be done at a rate of 15-30°/sec. A safety factor of 50% should be allowed for accidental overheating. Orig. art. has: 5 figures and 3 tables. [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none

Cord 2/2 W

16(1)

SOV/20-125-2-6/64

AUTHOR:

Livchak, Ya.B.

Group

the

TITLE:

A Locally Solvable Group Distinct From / RN*-Group (Lokal'no
razreshimaya gruppа, ne yavlyayushchayasya RN*-gruppy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 266-268 (USSR)

ABSTRACT:

The author solves some questions given in the surveys of B.I. Plotkin [Ref 1] and A.G.Kurosh and S.N.Chernikov [Ref 4]. There exists a locally solvable group being no RN*-group (negative solution of problem XI of [Ref 4]). There exists an RN-group being no RN*-group (negative solution of problem IX of [Ref 4]). There exists a locally radical group being not radical (negative solution of problem 15.1.2 of [Ref 1]). The author gives a series of further assertions, e.g.: There exists a semisimple locally radical group. There exists an RI-group being no RN*-group. 1 theorem, 2 lemmas, and 9 conclusions are given. The author

Card 1/2

A Locally Solvable ^{Group} ~~Distinct~~ From ^{the} RN*-Group

SOV/20-125-2-6/64

thanks the leader of the algebraic seminar Professor P.G. Kontorovich for advices.

There are 4 references, 2 of which are Soviet, 1 English, and 1 Hungarian.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo (Ural State University imeni A.M.Gor'kiy)

PRESENTED: December 1, 1958, by A.I.Mal'tsev, Academician

SUBMITTED: November 18, 1958

Card 2/2

LIVCHAK, Ya.B.

Theory of generalized solvable groups. Sib. mat. zhur. 1

no. 4:617-622 N-D '60.

(MIRA 14:2)

(Groups, Theory of)

LIVCHAK, Ya.B.

Local theorems for soluble structures with multiplication.

Mat. zap. Ural. mat. ob-va UrGu 3 no.1:54-66 '61.

(MIRA 19:1)

ACCESSION NR: AT3012179

S/2969/63/000/002/0212/0224

AUTHOR: Luchnik, N. V.; Livchak, Ya. B.

TITLE: Interpretation of time-effect curves

SOURCE: Leningrad. Universitet. Primeneniye matematicheskikh metodov v biologii, no. 2, 1963, 212-224

TOPIC TAGS: time-effect curve analysis, old time-effect curve hypothesis, new time-effect curve hypothesis, radiation cytogenetic change, chromosome mutation, time-effect curve formula, function of damage, different shaped time-effect curves

ABSTRACT: The authors advance the hypothesis that in experimental biology the time-effect curve can represent not only a statistical characteristic of a given population, but can represent a characteristic of the process leading to the studied reaction. Thus, time itself becomes the investigated subject instead of being a conditional characteristic of the subject's statistical properties. It is demonstrated by actual cases that the shape of a time-effect curve may be determined in the first place not by biological changeability,

Cord 1/42

ACCESSION NR: AT3012179

but by the kinetics of the damage and regeneration processes. Formulas are given for obtaining different types of time-effect curves from the damage function $p(t)$ and for inverse operations and these can be used in processing experimental data. "The authors are grateful to A. A. Lyapunov, N. V. Timofeyev-Resovskiy, M. A. Mikulinskiy, V. Ye. Tret'yakov, and G. N. Mil'shteyn for interest shown in this work and for valuable advice." Orig. art. has: 7 figures, 6 formulas.

ASSOCIATION: Leningrad Universitet (Leningrad University)

SUBMITTED: 00

DATE ACQ: 15Aug63

ENCL: 02

SUB CODE: AM

NO REF SOV: 013

OTHER: 008

Curd 2/47

LIVDANE, V.

Production base for the training of agricultural machine operators.
Prof.-tekh. obr. 22 no.7:6-7 J1 '65. (MIRA 18:8)

KABA, Emeric, ing.; LIVEANU, Nicolae, ing.; GRINDEANU, Alexandru, ing.
GHERGHEL, Cornel, ing.; MARINUT, Miron;

Improving the determination of coal mixture for coking.
Metalurgia Rum 15 no.5:345-347 My '63.

LIVECKA, E.; VOJTKO, K.

New Czechoslovak suction excavator. p. 708.

STROJIRENSTVI. (Ministerstvo tezkého strojirenství, Ministerstvo přesného strojirenství a Ministerstvo automobilového průmyslu a zemědělských strojů) Praha, Czechoslovakia, Vol. 9, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 1, Jan, 1960

Uncl.

LIVECKA, E.

New suction excavators in Czechoslovakia. p. 535.

VODNÍ HOSPODÁŘSTVÍ. (Ministerstvo energetiky a vodního hospodářství a
Vedecká technická společnost pro vodní hospodářství) Praha, Czechoslovakia,
No. 12, Dec. 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2,
Feb. 1960

Uncl.

LIVECKA, Emil, dr.

Pneumatic pumping installations. Vodni hosp 13 no.7:277-278 '63.

LIVECKA, Emil , dr.

Pressure air pumping device for cleaning the reservoirs of water power plants. Energetika Cz 12 no.7:361-362 J1'62.

1. Elektromontazni zavody, Praha.

LIVECKA, E., dr. (Praha)

Extraction of gravel sand from water in middle and great depth.
Stavivo 41 no.1:16-18 Ja '63.

LIVECKA, Emil, dr.

~~Experience~~ in the operation of floating pumping stations. Vodni
hosp 13 no.5:198 '63.

AUTHOR:

LIVEN, A.N.

PA - 2937

TITLE:

A Contribution to the Problem of Oesophagus Innervation in Vertebrates and in Man. (Materialy k voprosu ob innervatsii pishchevoda pozvonochnykh zhivotnykh i cheloveka, Russian)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 1, pp 199 - 202 (U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

ABSTRACT:

In the present paper the first attempt is made to study the esophageus nervous system by the method of histological comparison, i.e. the study of the afferent and efferent components of vegetative innervation. The experiments were carried out on trout, frogs (*Rana temporaria*), tortoises (*Testudo horsfieldi*), the domesticated hens, cats and human beings in form of a rising evolutionary series. These representants of the series display a consequent enrichment of the nervous system by nervous cells and fiber ganglia. Together with the higher organism of the animals, a concentration of the nervous fibers in a sort of bundle similar to cables and of the nervous cells in fully developed ganglia takes place. In the esophageal plexus a progressing transformation of the neurons takes place. In the course of evolution the unipolar cells (in the case of fish) undergo a metamorphosis to highly developed neurons of type I (according to DOGIEL) in the case of man. The pericellular apparatus becomes more complicated in the course of evolution, and changes from

Card 1/2

**A Contribution to the Problem of Oesophagus
Innervation in Vertebrates and in Man.**

PA - 2937

a simple sling in the case of the lower vertebrates to a tangle-like apparatus in the case of mammals and man. This pericellular apparatus does not coalesce with its perifibrillar substance with the neuron plasma, but only touches the body of the nervous cell. This circumstance, by the way, is another proof in favor of the theory of the neuron composition of the vegetative nervous system. The authors observed in the series under investigation that the general complication is accompanied by a progressive development of afferent innervation moving on the line of an increasing differentiation of the sensitive nerve ends and of growing saturation of the esophagus tissue with such nervous ends. In the cross-striated esophagus muscles differentiated motoric end-plates are more abundant in the case of mankind in comparison to other mammals. They are, however, smaller in the case of human beings and their terminating ramifications are more numerous, but markedly shorter and placed between a smaller number of nuclei in the sole. (4 illustrations)

ASSOCIATION:

Physiological Institute "I.P.PAVLOV" of the Academy of Science of the U.S.S.R.

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 2/2

Library of Congress

LIVEN, A.N.

20-5-57/67

AUTHOR
TITLE

LIVEN A.N.

On the Morphology of Oesophagus Receptors in Birds.
(K voprosu o morfologii retseptorov pishchevoda ptits.-
Russian.)

PERIODICAL

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 5, pp 1150-1153

ABSTRACT

The observations of morphologists, physiologists and clinicians speak of the multiple character of the receptors of inner organs which impart information to the central nervous system on the condition of these organs. However, the sensory innervation of a number of organs, especially of the oesophagus, of vertebrate animals has been investigated only insufficiently in phylogenesis. Thus we lack data on the presence of receptors in the oesophagus of reptiles and birds. The author studied this problem on hens aged from 1 day to 6 year. The study of this material made it possible to find out a certain regularity in the distribution and the structure of the sensory endings along the oesophagus. In the muscular covering of the upper third and partly in the crop wall there are mainly glomerule-type receptors whilst in the middle and lower third of the oesophagus the tree-type is predominant. The author puts this in connection with the phylogenetic development and with the functional

CARD 1/2

On the Morphology of Oesophagus Receptors in Birds.

20-5-57/67

destination. If the morphological investigations are compared with the physiologic findings on the susceptibility of the oesophagus we can suggest that the sensory glomerules are, at least with respect to a change of mechanic pressure, more sensitive than small trees. Trees, on the other hand, which are spread over a much greater area, seem to absorb the stimulus on the occasion of an expansion of the wall of the oesophagus. This is physiologically proved; on the occasion of a mechanic expansion of the oesophagus a short but considerable reduction of arterial tension as well as a respiratory failure occur. Chemical stimuli, however, do not always elicit specific reflexes of this kind. (4 illustrations, 5 citations from Slavic publications.)

ASSOCIATION: Physiologic Institute "I.P. PAVLOV" of the Academy of Science of the USSR.

PRESENTED BY: K.M. BYKOV, Member of Academy.

SUBMITTED: 15.1. 1957.

AVAILABLE: Library of Congress.

CARD 2/2

LIVEN, A.M., Doc Med Sci--(diss) "Data ^{on} the problem of ⁱⁿ⁻ ^{nerve} in-
nervation ^{of} vertebrate^s and humans. (Comparative-histological study)."
Barnaul, 1958. 35 pp (Acad Sci USSR. Inst of Physiology in I.P.
Pavlov), 100 copies (KL,26-58,114)

- 126 -

LIVEN, A.N.

Materials on esophageal innervation in vertebrate animals and man.
Trudy Inst. fiziol. 7:567-572 '58. (MIRA 12:3)

1. Laboratoriya morfologii (zav. - N.G. Kolosov) Instituta fiziologii
im. I.P. Pavlova AN SSSR.
(ESOPHAGUS--INNERVATION)

LIVEN, A.N. (Barnaul, Altayskiy kray. Pr. Im. Lenina, d. 107, kv. 6)

Some data on synapses [with summary in English]. Arkh.anat.gist. i
embr. 35 no.6:32-36 N-D '58. (MIRA 12:1)

1. Iz laboratorii morfologii (zav. chl.-korr. AN SSSR N.G. Kolosov)
Instituta fiziologii im I.P. Pavlova AN SSSR.
(SYNAPSES, anatom & histology,
(Rus)

YERZH, B.V.; LIVEN, A.V.

A cryostat for laboratory use. Zav.lab. 31 no.10:1274 '65.

(MIRA 19:1)

1. Kemerovskiy nauchno-issledovatel'skiy institut khimicheskoy promyshlennosti.

SHUTSKAYA, Ye.I., kand. med. nauk; Prinimali uchastiye: RABINOVICH, S.Ye., prof.; SLEPTSOVA, A.I., vrach; LIVEN, K.I., vrach; SOKOLOVA, R.I., vrach; PEREL'MAN, R.M., vrach; AL'TMAN, I.M., vrach; SHEPILOV, N.S., kand. veterin. nauk; SVIRIDOV, A.A.

Epidemiological importance of tuberculosis in cattle.
Veterinariia 40 no.10:19-20 0'63. (MIRA 17:5)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza
(all except Shepilov, Sviridov).

BUMBURE, M.; GALENIEKS, P., prof., doktor; JADZEME, V.; LIVENA, Dz.;
PETERSONE, A.; DIMDINS, J., red.; AIZUPIETE, M., tekhn. red.

[Flora of the Latvian S.S.R.] Latvijas PSR flora. P. Galenika
red. Riga, Latvijas Valsts izdevnieciba. Vol.3. 1957. 459 p.
[In Latvian] (MIRA 15:1)

(Latvia--Botany)

S/130/61/000/007/001/001
A006/A106

AUTHOR: Livenets, I. A. Mechanician, of open-hearth shop no. 2
TITLE: Hydraulic-controlled stopper device of a steel teeming ladle
PERIODICAL: Metallurg, no. 7, 1961, 13 - 17

TEXT: The hydraulic device employed at KMK is intended for the simultaneous control of two stoppers mounted on over 200 ton capacity steel teeming ladles. The hydraulic device (Figure 1) consists of oil container 1, high pressure $\pi 1\phi 12$ (L1F12) type rotary pump with a πHB 28.5 (PNV25.5) type 1.6 kw motor, $n = 1,000$ rpm; 2 valve boxes 3, mounted on top of the container with the valves controlled by electromagnets; type $\Gamma 52-13$ (G52-13) safety valve 4, emergency valve 5, nitrogen cylinder 6 with hand wheel 7, two hydraulic cylinders 8 and a control desk. The oil is sucked in through a filter and supplied to the safety valve which is regulated at 40 atm pressure. Its design is complicated and is now being improved. The main parts of the device are the valve boxes, designed by workers of the mechanical engineering shop No. 2, I. I. Chuvikovskiy and M. M. Vashchuk, and requiring high precision of manufacture. Each valve box is equipped with slide valve a, to lift the stopper and

Card 1/3

S/130/61/000/007/001/001
A006/A106

Hydraulic-controlled stopper device of a ...

slide valve b to drop it. The valves are operated from the control desk. To lift the stopper the reverse valve is brought to the limit upper position and the oil is supplied to valves a and b. Under the action of solenoid d (left hand) valve a drops to 15 mm, opens the way for the oil to tube n and the upper section of the cylinder, and the stopper is lifted. The stopper is dropped, at a limit upper position of reverse valve c, but is subjected to the action of right hand solenoid d, which presses down valve b, so that the oil enters the lower section of the cylinder. The stopper is shut down at the upper position of the main reverse valve s, the slide valves being lifted and preventing the access of oil to the cylinder. The emergency valve serves to close rapidly the stopper and is fed by compressed nitrogen of 60 atm pressure from cylinder 6. The nitrogen pressure is sufficiently high to close instantly both stoppers. For manual teeming the main reverse valve c is dropped to the limit so that the access of oil to the high-pressure conducts is cut off. The hydraulic device and the nitrogen cylinder are located on a platform near the mechanician's cabin. The control board above the machine is equipped with switches for the motor, the valve electromagnets, the oil heater, the safety valves and the knife switch. It is intended to use the described installation for teeming, controlled by the teeming tap operator. There are 5 figures.

Card 2/3

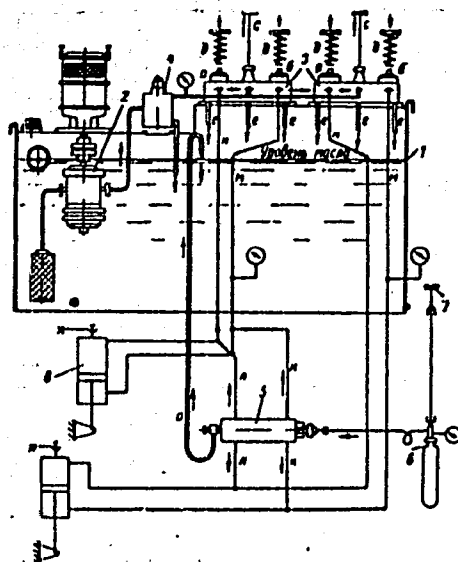
Hydraulic-controlled stopper device of a steel ...

S/130/61/000/007/001/001
A006/A106

ASSOCIATION: KMK

Figure 1:

Schematic drawing of the
hydraulic device for the
stopper control



Card 3/3

SHKVARNIKOV, P.K., LIVENSI, A.M.

Variation in the frequency of radiation injuries of chromosomes in primary roots of wheat seeds. Izv. SO AN SSSR no.4. Ser. biol.-med. nauk no.1:28-34'63. (MIRA 16:8)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

FILEV, Dmitriy Sidorovich[Fil'ov, D.S.]; ZOLOTOV, Viktor Ivanovich,
kand. sel'khoz. nauk; ZADONTSEV, A.I., zasl. zasl. deyatel'
nauki USSR, akademik, red.; LIVENSKAYA, O.I.[Livens'ka, O.I.],
red.; GLUSHKO, G.I.[Glushko, H.I.], tekhn. red.

[Dohliad za posivamy kukurudzy. Dnipropetrovs'k, Dnipropetrovs'ke
knyzhkove vyd-vo, 1961. 13 p. (MIRA 15:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk im. V.I.Lenina (for Filev). 2. Direktor Vsesoyuznogo
nauchno-issledovatel'skogo instituta kukuruzy i Vsesoyuznaya aka-
demiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Zadontsev).
(Ukraine--Corn (Maize))

STAFIYCHUK, Andrey Afanas'yevich [Staflichuk, A.O.], kand. sel'-
khoz.nauk; ZADONTSEV, A.I., zasl. deyatel' nauki USSR,
akademik, red.; LIVENSKAYA, O.I. [Livens'ka, O.I.], red.;
GLUSHKO, G.I. [Hlushko, H.I.], tekhn. red.

[Using corn as silage] Vykorystannia kukurudzy na sylos.
Dnipropetrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo, 1961. 14 p.
(MIRA 15:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
im. V.I. Lenina (for Zadontsev).
(Ukraine—Corn (Maize)) (Ensilage)

KRYACHKO, Filipp Gavrilovich[Kriachko, P.H.]; ZADONTSEV, A. I.,
akademik zasl. deyatel' nauki USSR, red.; LIVENSKAYA, O.I.
[Livens'ka, O.I.], red.; GLUSHKO, G.I.[Hlushko, H.I.],
tekh. red.

[Growing hybrid corn seed] Vyroshchuvannia hibrydnoho nasin-
nia kukurudzy. Dnipropetrovs'K, Dnipropetrovs'ke knyzhkove
vyd-vo, 1961. 22 p. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy
(for Kryachko). 2. Direktor Vsesoyuznogo nauchno-issledovatel'-
skogo instituta kukuruzy i Vsesoyuznaya Akademiya sel'skokho-
zyaystvennykh nauk im. V.I.Lenina (for Zadontsev).
(Dnepropetrovsk Province--Hybrid corn)
(Seed production)

GODULYAN, Ivan Stepanovich [Hodulian, I.S.], kand. sol'khov. nauk;
SHARPILO, Pavel Stepanovich [Sharpylo, P.S.]; ZADONTSEV, A.I.,
zas. deyatel' nauki URSR, akademik; LIVENSKAYA, O.I. [Livens'ka,
O.I.], red.; GLUSHKO, G.I. [Hlushko, H.I.], tekhn. red.

[Best preceding crops for corn] Kukurudzi - krashchykh popered-
nykiv. Dnipropetrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo,
1961. 22 p. (MIRA 15:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo institu-
ta kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystvennykh
nauk in. V.I.Lenina (for Zadontsev).
(Ukraine--Corn (Maize)) (Rotation of crops)

KOGAN, Emmanuil Rafailovich[Kohan, E.R.], kand. ekon. nauk; FLYAGIN, Anatoliy Denisovich[Fliahin, A.D.], nauchnyy sotr.; ZADONTSEV, A.I., akademik, zasl. deyatel' nauki Ukrainskoy RSR, red.; LIVENSKAYA, O.I.[Livens'ka, O.I.], red.; GLUSHKO, G.I. [Hlushko, H.I.], tekhn. red.

[Increase of labor productivity and wages in corn growing]
Pidvyshchemnia produktyvnosti ta oplata pratsi na vyroshchuvanni kukurudzy. Dnipropetrovs'k, Dnipropetrovs'ke kryzhkove vyd-vo, 1961. 24 p. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy (for Flyagin). 2. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta kukuruzy (for Zadontsev).
(Ukraine--Corn (Maize)) (Ukraine--Agriculture--Labor productivity)

ARTYUKHOV, Iosif Konstantinovich, kand. sel'khoz.nauk; ZADONTSEV, A.I.,
zasl. deyatel' nauki URSS, akademik, red.; LIVENSKAYA, G.I.
[Livens'ka, O.F.], red.; GLUSHKO, G.I. [Glushko, H.I.], tekhn.red.

[Effective measures for corn fertilization] Efektyvni za-
khody udobrennia kukurudzy. Dnipropetrovs'k, Dnipropetrovs'ke
knyzhkove vyd-vo, 1961. 24 p. (MIRA 15:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
im. V.I.Lenina (for Zadontsev).

(Ukraine--Corn (Maize))--Fertilizers and manures

GIRENKO, Andrey Pavlovich [Hyrenko, A.P.], kand. sel'khn. nauk;
LIVENSKIY, Anatoliy Ivanovich [Livens'kyi, A.I.], nauchnyy
sotr.; ZADONTSEV, A.I., zasl. deyatel' nauki USSR, akademik,
red.; LIVENSKAYA, O.I. [Livens'ka, O.I.], red.; GLUSHKO, G.I.
[Hlushko, H.I.], tekhn. red.

[Sowing corn along with soybean for silage] Zmishani posivy
kukurudzy z soieiu na sylos. Dnipropetrovsk, Dnipropetrovs'-
ke kryzhkove vyd-vo, 1961. 26 p. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy
(for Livenskaya). 2. Direktor Vsesoyuznogo nauchno-issledova-
tel'skogo instituta kukuruzy i Vsesoyuznaya akademiya sel'-
kokhozyaystvennykh nauk imeni V.I. Lenina (for Zadontsev).

(Ukraine--Corn (Maize))

(Ukraine--Soybean)

(Ensilage)

SOKOLOV, Boris Pavlovich, akademik, prof., doktor sel'khoz. nauk;
DOMASHNEV, Pavel Pavlovich [Domashniev, P.P.], nauchnyy
sotr.; ZADONTSEV, A.I., zasl. deyatel' nauki USSR, akademik,
otv. red.; LIVENSKAYA, O.I. [Livens'ka, O.I.], red.; GLUSHKO,
G.I. [Hlushko, H.I.], tekhn. red.

[Introduce the best corn hybrids into production] Vprovadzhu-
vaty u vyrobnytstvo krashohi hibrydy kukurudzi. Dnipropetrovs'k,
Dnipropetrovs'ke knyshkove vyd-vo, 1961. 46 p. (MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.
Lenin i Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for
Sokolov). 2. Direktor Vsesoyuznogo nauchno-issledovatel'skogo
instituta kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystven-
nykh im. V.I. Lenina (for Zadontsev).

(Ukraine—Hybrid corn)

REPIN, Anatoliy Nikolayevich [Riepin, A.M.], kand.sel'khoz.nauk;
ZADONTSEV, A.I., zasl. deyatel' nauki USSR, akademik,
red.; LIVENSKAYA, O.I. [Livens'ka, O.I.], red.; GLUSHKO, G.I.
[Hlushko, H.I.], tekhn. red.

[Drying and storing of corn] Sushinnia ta zberihannia kuku-
rudzy. Dnipropetrovs'k, Dnipropetrovs'ke kryzhkove vyd-vo,
1961. 32 p. (MIRA 15:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystvennykh
nauk im. V.I.Lenina (for Zadontsev).
(Ukraine--Corn (Maize))--Drying)
(Ukraine--Corn (Maize))--Storage)

KRECHUN, Yuriy Borisovich; KANIVETS, Ivan Danilovich, nauchnyy sotr.;
ZADONTSEV, A.I., zasl. deyatel' nauki USSR, akademik, red.;
LIVENSKAYA, O.I. [Livens'ka, O.I.], red.; GLUSHKO, G.I.
[Glushko, H.I.], tekhn. red.

[Over-all mechanization of growing and harvesting] Kompleksno-
mekhanizuvaty vyroshchuvannia ta zbyrannia kukurudzy. Dnipro-
petrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo, 1961. 49 p.
(MIRA 15:7)

1. Zaveduyushchii otdelom mekhanizatsii Vsesoyuznogo nauchno-
issledovatel'skogo instituta kukuruzy (for Krechun). 2. Vseso-
yuznyy nauchno-issledovatel'skiy institut kukuruzy (for
Kanivets'). 3. Direktor Vsesoyuznogo nauchno-issledovatel'skogo
instituta kukuruzy i Vsesoyuznaya akademiya sel'skokhozyaystven-
nykh nauk im. V.I. Lenina (for Zadontsev).
(Ukraine--Corn (Maize))

FILEV, Dmitriy Sidorovich [~~Filev, D.S.~~], PROKAPALO, Ivan Sidorovich, kand. sel'-
khoz. nauk; ZADONTSEV, A.I., akademik, zasl. deyatel' nauki
Ukrainskoy SSR, red.; LIVENSKAYA, O.I. [Livens'ka, O.I.],
red.; GLUSHKO, G.I. [Hlushko, H.I.], tekhn. red.

[Tillage and corn sowing] Obrobitok hruntu ta sivba kukurudzy.
Dnipropetrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo, 1961. 15 p.

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk im. V.I. Lenina (for Filev); ~~Chlen-korrespondent~~ Vsesoyuznogo
nauchno-issledovatel'skogo instituta kukuruzy i Vsesoyuznaya
akademiya sel'skokhozyaystvennykh nauk im. V.I. Lenina (for
Zadontsev).

(Ukraine---Corn (Maize))

PISTUNOV, Nikolay Ivanovich[Pistunov, M.I.]; LIVENSKAYA, O.I.[Livens'ka, O.I.], red.; GLUSHKO, G.I.[Hlushko, H.I.], tekhn. red.

[Expert corn growers]Maistry - kukurudzovody. Dnipropetrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo, 1961. 44 p. (MIRA 16:1)
(Ukraine—Corn (Maize))

GIRENKO, Andrey Pavlovich[Hyrenko, A.P.], kand. sel'khoz.nauk;
LIVENSKIY, Anatoliy Ivanovich[Livens'kyi, A.I.], nauchnyy
sotr.; ZADONTSEV, A.I., zasl. deyatel' nauki USSR, akademik,
red.; LIVENSKAYA, O.I.[Livens'ka, O.I.], red.; GLUSHEC, G.I.
[Hlushko, H.I.], tekhn. red.

[Sowing corn along with soybean for silage] Zmishani posivy
kukurudzy z soieiu na sylos. Dnipropetrovsk, Dnipropetrovs'-
ke kryzhkove vyd-vo, 1961. 26 p. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy
(for Livenskaya). 2. Direktor Vsesoyuznogo nauchno-issledova-
tel'skogo instituta kukuruzy i Vsesoyuznaya akademiya sel'-
kokhozyaystvennykh nauk imeni V.I.Lenina (for Zadontsev).

(Ukraine--Corn (Maize))

(Ukraine--Soybean)

(Ensilage)

LIVENSON, H. R.

LIVENSON, A.R.; KOLOSOV, A.A.

Apparatus for ultrahigh - frequency impulse therapy. Med.prom. 11
no.8:49-52 Ag '57. (MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(DIATHERMY)

(ELECTRIC APPARATUS AND APPLIANCES)

AUTHORS: Livenson, A., Kolosov, A.

SOV/107-58-10-25/55

TITLE: Electronic Medical Apparatus (Elektronnaya meditsinskaya apparatura)

PERIODICAL: Radio, 1958, Nr 10, pp 23-26 (USSR)

ABSTRACT: The author describes the chief groups of electronic apparatus used in medical practice; they are as follows: 1) electronic apparatus for functional diagnosis. This includes electrocardiography, vectorelectrocardiography, phonocardiography, measurement of the frequency of the pulse, electroencephalography and gastrography; 2) low-frequency pulse apparatus. Low-frequency pulse currents are widely used in diagnostic and therapeutic practice; for example, in order to cure complaints connected with a disease of the neuro-muscular system it is necessary to establish the character, degree and location of the disease. For this purpose diagnostic methods are used based on the ability of tissue to be excited by the passage of an electric current through it; the reactions of the tissue to the electrical irritation (in this case a direct current, single pulses of varying duration, and periodically a pulse current of varying duration and frequency) can be studied. Low frequency pulse currents are also used for

Card 1/3

Electronic Medical Apparatus

SOV/107-58-10-25/55

therapeutical purposes, such as electrical stimulation of the muscles, artificial respiration, etc; 3) high-frequency physiotherapeutic apparatus. Some forms of h-f therapy are classified according to the frequency of the h-f generators used, for example diathermy, inductothermy, uhf therapy and microwave therapy. The author adds that for warming up muscular tissue when using uhf therapy, a new electrode has been suggested, taking the form of an oscillatory circuit separate from the apparatus itself. With this method use is made of the magnetic field of the coil of the circuit, which generates the greatest amount of heat in the muscular tissue due to the eddy currents formed in it. In this manner the doctor can localize the effect of the h-f energy by choosing one or another electrode. The author also mentions that pieces of equipment used for contact diathermy are usually universal as regards impulse, and are also used in electro-surgery for the cutting and coagulation of tissue. In such cases the equipment is provided with special electrodes. The frequencies allotted by the Ministry of Communications for h-f physiotherapy are given: they are 1,625, 13.56, 39, 152, and 2375 mc; 4) supersonic apparatus. A brief description of the principles of the therapeutic use of ultra-

Card 2/3

Electronic Medical Apparatus

SOV/107-58-10-25/55

sound is given, in particular its use in stomatology and diagnosis, as follows. When the supersonic method of drilling teeth is employed, with a cutting point of 1.5 x 1.5 mm and an oscillating frequency of 20 kc, the number of strokes of the cutting elements reaches 9,000,000 at a speed of 0.03 m per min. In diagnosis use is made of the reflection or absorption of the supersonic waves depending on the density, elasticity and uniformity of the tissues. There are 4 photographs.

ASSOCIATION: Laboratoriya elektronnykh meditsinskiykh priborov i apparatov VNII MIIO (Laboratory of Electronic Medical Instruments and Apparatus of the VNII MIIO)

Card 3/3

LIVENSON, A.R.

Use of ultrasound for aerosol therapy. Med.prom. 13 no.1:
17-24 Ja '59. (MIRA 12:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(ULTRASONIC WAVES) (AEROSOLS--THERAPEUTIC USE)

KOLOSOV, A.A.; LIVENSON, A.R.

Use of ultrasonics in stomatology. Med. prom. 13 no.5:15-23 My '59.
(MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(ULTRASONIC WAVES--THERAPEUTIC USE)

(DENTAL INSTRUMENTS AND APPARATUS)

LIVENSON, A.R.

Prospects for the development of apparatus for high-frequency electrotherapy. Med.prom. 13 no.6:8-15 Je '59.

(MIRA 12:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS)

(ELECTROTHERAPEUTICS)

9.4210 (1052)
27 11000

29768
S/194/61/000/C06/051/077
D201/D302

AUTHORS: Livenson, A.R. and Korotkikh, K.I.

TITLE: Apparatus for acting upon biological objects by pulsed microwaves

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 6, abstract 6 E37 (Novosti med. tekhn., 1960, no. 1, 25-32)

TEXT: The apparatus (A) is intended for experimental work. The operating frequency of A is 3000 Mc/s, with a typical pulsed magnetron as generator. The HF pulse duration is 1 microsec., repetition frequency 0.7 - 700 c/s. Power is regulated in steps from 10 to 100% (40 - 50kW). A milliammeter in the anode circuit of the magnetron indicates the output power. The radiator consists of a pyramidal horn. The shape of pulses is nearly rectangular. The modulation is by means of transmission line discharge through a thyatron and a pulse transformer; the thyatron is fired by pulses from a 3-

Card 1/2